

256-895-1719 or jimmy.c.hay

Joyce L. Ziesler **Contracting Officer, DOE**

303-275-4725 or joyce.ziesler@go.doe



Overview

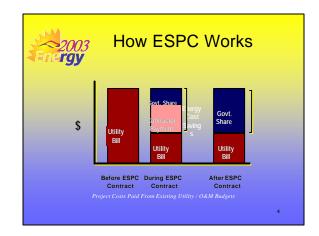
- **Energy Savings Performance Contracting (ESPC); Definition** and Need
- USACE Huntsville, DOD ESPC Program
- DOE SUPER ESPC Program
- **DOD/DOE Program Differences**
- Lessons Learned/Questions and Answers



Energy Savings Performance Contracting

Definition: A contracting method where the contractor provides capital energy improvements and maintains them in exchange for a portion of the energy and energy-related savings generated.







EPACT, Executive Order 13123

- Reduce 1985 energy consumption by 35% by 2010.
- Demonstrate energy technology (showcases).
- EO 13123, Section 402: Agencies shall maximize use of available alternative financing mechanisms, including ESPC.



Reduce greenhouse gas emissions 30% below 1990 levels by 2010.



Why Energy Saving Performance **Contracting?**

- Declining budget for installation of state-of-the art, energy efficient equipment and the replacement of failed and failing systems
- Fewer maintenance personnel
- Preventative maintenance no longer possible







The Value of 3rd Party Financing

- FACT:
 - 3rd Party financing will eventually cost more than directly funding projects due to the compounding value of interest
 - It does allow you to obtain new energy- efficient infrastructure with \$0 in capital outlay

7



- You must be:
 - A federal agency with government owned facilities
 - No leased facilities
 - Located within a DOE or DOD region, or international federal facility (DOE tech specific)

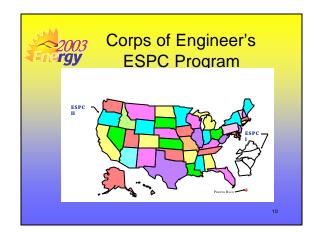
В



Corps of Engineer's ESPC Program

- · Over 17 years of experience in business
- ESPC team essentially in one building produces synergistic results for customers
- Ability to use national and international Corps assets to leverage customer support
- Over \$400 Million in ESPC awards (investment) and over \$118 Million in avoided costs to date

9

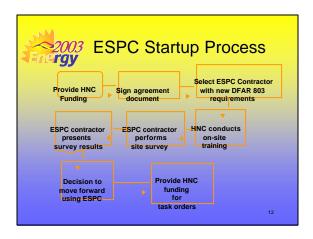




Corps of Engineer's ESPC Program

- Corps of Engineer's cost structure:
 - Labor & travel costs are not pre-priced
 - Provide cost on project by project basis
 - Full "turn key" support (technical, legal, contracting, project management)
 - Contractors provide an estimate of their investment by project

11





Contractor Selection DFAR 803

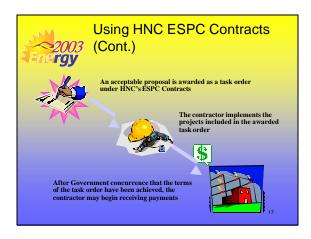
- Customer submits customer survey with request for HNC's services
- Contractors will compete to implement ECSMs for 3 years.
- · Contractors provided the following info:
 - Utility Rates for the site
 - Types of projects site is interested in
 - General Installation Data
 - Building types and locations

13













Resource Efficiency Manager Funding

The following methods are available for funding the REM:

- · Installation provides funding from O&M budget
- REM costs funded through existing energy savings projects
- O&M funding combined with energy savings created by the REM

19



Lessons Learned

Review project after 1 or 2 years of operation.

Does project perform as expected?

- · Did contract vehicle work?
- Is customer happy?
- · What would we do different?



20



Lessons Learned

What Would We do Different?

- Documentation of facility points of contact in proposal & M&V reports?
- Insure that M&V process is adequately detailed in the proposal?
- Participate in pre-construction meetings ?
- Contact customer more often after project acceptance?
- Witness of M&V testing?

21



DOE SUPER ESPC PROGRAM



- Regional and Tech-Spec Awards in place for 25 years, with 25 year delivery order terms available
- Permit agencies to issue delivery orders without up-front capital outlay
 Provides free DOE project facilitation services through decision point
- Priced menu of services thereafter, with flexible payments through Interagency Agreements
- Provides DOE CO/COR and PM support throughout process at no charge
- Provides free Training workshops on ESPC itself, and how to issue delivery orders against contracts
- 101 agency awards to date, since 1998, with \$395 million in investment
- 78 Additional projects are currently Contractor Identified approved and in process



- FEMP Services
 - One-stop shop: project facilitators, agency technical & procurement assistance for energy and water projects
 - Offers a menu of services.

Government-identified project ~ \$50K estimate

Additional support available: a list of more specific FEMP, federal staff and DOE contractor support

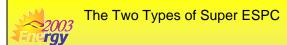
Contractor-identified project ~ \$30K estimate

· Free through initial proposal review

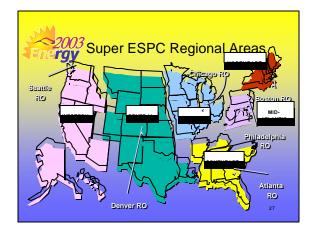
24

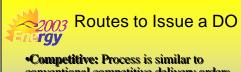


- Covers all facilities in a geographic region
- Standardizes general terms and conditions
- Multiple award IDIQs to cadre of ESCOs
- Allows for revision of IDIQ terms by agency in delivery orders
- Projects executed by agency delivery orders placed against the IDIQ



- Regional (by DOE region)
- Technology Specific (international)
 - -> Geothermal Heat Pumps
 - -> Photovoltaics
 - -> Thermal Solar
 - -> Biomass and Alternative Methane **Fuels**





conventional competitive delivery orders. -> Government-Identified

 Single-Source: CICA processes used in placing IDIQs allows for single-source DOs without protest.

-> Contractor-Identified

No CBD notice is required for either approach.



- •Project Definition:
- Contractor-identified project
 - ESCO defines project, recommends ECMs, and submits an initial proposal, as approved to do so
- Government-identified project
 - Agency defines project's technical specifications and assembles information on existing equipment (Site Data Package) and requests multiple initial proposals (Not happening much)



Potential Advantages of Contractor-ID Approach

- Allows ESCO to get things started
- Avoids SDP development & review of multiple proposals
- Typically results in more informal and faster process
- Draws on project development expertise of ESCO industry
- Allows govt. to focus its resources
 - studying ESCO's offer
 - working w/ESCO to develop scope of project
 - verifying price reasonableness and realism



